

RAW SEQUENCE LISTING

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Application Serial Number: 10/783,415A
Source: IFW16
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IFW16

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DATE: 09/14/2005

PATENT APPLICATION: US/10/783,415A

TIME: 09:57:11

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Output Set: N:\CRF4\09142005\J783415A.raw

3 <110> APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS
 4 REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND
 5 HUMAN SERVICES
 6 Marchetti, Antonio
 7 Buttitta, Fiamma
 8 Smith, Gilbert H.
 9 Callahan, Robert

11 <120> TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED AMINO ACID SEQUENCES OF TUMOR GENE

INT6

13 <130> FILE REFERENCE: 4239-67782-01
 15 <140> CURRENT APPLICATION NUMBER: 10/783,415A
 16 <141> CURRENT FILING DATE: 2004-02-19
 18 <150> PRIOR APPLICATION NUMBER: 09/858,152
 19 <151> PRIOR FILING DATE: 2001-05-14
 21 <150> PRIOR APPLICATION NUMBER: 09/378,842
 22 <151> PRIOR FILING DATE: 1999-08-23
 24 <150> PRIOR APPLICATION NUMBER: 08/875,847
 25 <151> PRIOR FILING DATE: 1997-09-25
 27 <150> PRIOR APPLICATION NUMBER: PCT/US96/01884
 28 <151> PRIOR FILING DATE: 1996-02-09
 30 <150> PRIOR APPLICATION NUMBER: 08/385,998
 31 <151> PRIOR FILING DATE: 1995-02-09
 33 <160> NUMBER OF SEQ ID NOS: 36
 35 <170> SOFTWARE: PatentIn version 3.2
 37 <210> SEQ ID NO: 1
 38 <211> LENGTH: 1505
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Murine INT6
 42 <400> SEQUENCE: 1

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45	atcttctgga tcggcacctg gtctttccgc ttcttgagtt tctctctgtg aaagagattt	120
47	ataatgaaaa agaattatta caaggaaaat tagatcttct tagtgatacc aatatggtgg	180
49	actttgctat ggatgtttac aaaaaccttt attctgatga tatccctcat gctttgagag	240
51	aaaaaagaac cacagttggt gcgcagctga aacagctcca ggcagaaaca gaaccaattg	300
53	tgaagatggt tgaagatcca gaaactacaa ggcagatgca gtcaaccagg gatggcagga	360
55	tgttattttga ctacctggca gacaaacatg ggtttaggca agagtactta gatacactct	420
57	acagatacgc aaaattccag tatgagtgtg gaaattactc tggagctgca gagtatcttt	480
59	acttcttttag agttttggtc ccagcaacag atagaaatgc tttaagttcg ctctggggaa	540
61	aactggcctc tgaaatctta atgcagaatt gggatgcagc catggaagac cttactcgat	600
63	taaaagaaac catagacaat aattctgtga gttctccact ccagtctctt cagcagcgaa	660
65	catggctcat tcattggtct ctatttgttt ttttcaacca tccaaagggc cgtgataaca	720
67	ttattgatct cttcctttac caaccacagt atcttaatgc aattcagaca atgtgtccac	780
69	atattctacg ctatttgact actgccgtca taaccaacaa agatgtgcgg aaacgccggc	840
71	aggtgctgaa agatctggtg aaagtgatcc aacaggagtc ttacacatat aaagacccaa	900

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73 ttacagaatt tgttgaatgc ctatatgtta actttgattt tgacggggct cagaaaaagc      960
75 tgagagaatg tgaatcagtg ctcgatgaatg acttcttctt ggtagcgtgt ctggaggact    1020
77 tcattgagaa tgcccgctctc ttcataatttg agacgttttg tcgtatccac cagtgtatca    1080
79 gcattaatat gtttagcagat aaactgaata tgactccaga agaagctgaa agatggattg    1140
81 tgaatttgat tagaaatgcg aggttggatg ccaagattga ttctaaacta ggtcatgtgg    1200
83 taatgggcaa caatgcagtc tcgccctacc agcaagtgat tgaaaagacc aaaagccttt    1260
85 cttttagaag ccaaagtgtg gccatgaata ttgaaaagaa acttaatcag aacagtagat    1320
87 cagaggctcc caactgggca acccaagact ctggcttcta ttaaaggatt ataaagaaaa    1380
89 gaagaaaaag gaataagtga aagacacagt agccattgtg tataaaggat gacatacatt    1440
91 tttagaagca attaacatgt ttgctacaaa ttttggagaa tttgaataaa attggctatg    1500
93 attaa                                          1505
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97 <211> LENGTH: 396
98 <212> TYPE: PRT
99 <213> ORGANISM: Murine INT6
101 <400> SEQUENCE: 2
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104 1          5          10          15
107 Ile Pro His Ala Leu Arg Glu Lys Arg Thr Thr Val Val Ala Gln Leu
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111 Lys Gln Leu Gln Ala Glu Thr Glu Pro Ile Val Lys Met Phe Glu Asp
112          35          40          45
115 Pro Glu Thr Thr Arg Gln Met Gln Ser Thr Arg Asp Gly Arg Met Leu
116          50          55          60
119 Phe Asp Tyr Leu Ala Asp Lys His Gly Phe Arg Gln Glu Tyr Leu Asp
120 65          70          75          80
123 Thr Leu Tyr Arg Tyr Ala Lys Phe Gln Tyr Glu Cys Gly Asn Tyr Ser
124          85          90          95
127 Gly Ala Ala Glu Tyr Leu Tyr Phe Phe Arg Val Leu Val Pro Ala Thr
128          100         105         110
131 Asp Arg Asn Ala Leu Ser Ser Leu Trp Gly Lys Leu Ala Ser Glu Ile
132          115         120         125
135 Leu Met Gln Asn Trp Asp Ala Ala Met Glu Asp Leu Thr Arg Leu Lys
136          130         135         140
139 Glu Thr Ile Asp Asn Asn Ser Val Ser Ser Pro Leu Gln Ser Leu Gln
140 145         150         155         160
143 Gln Arg Thr Trp Leu Ile His Trp Ser Leu Phe Val Phe Phe Asn His
144          165         170         175
147 Pro Lys Gly Arg Asp Asn Ile Ile Asp Leu Phe Leu Tyr Gln Pro Gln
148          180         185         190
151 Tyr Leu Asn Ala Ile Gln Thr Met Cys Pro His Ile Leu Arg Tyr Leu
152          195         200         205
155 Thr Thr Ala Val Ile Thr Asn Lys Asp Val Arg Lys Arg Arg Gln Val
156          210         215         220
159 Leu Lys Asp Leu Val Lys Val Ile Gln Gln Glu Ser Tyr Thr Tyr Lys
160 225         230         235         240
163 Asp Pro Ile Thr Glu Phe Val Glu Cys Leu Tyr Val Asn Phe Asp Phe
164          245         250         255
167 Asp Gly Ala Gln Lys Lys Leu Arg Glu Cys Glu Ser Val Leu Val Asn

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168          260          265          270
171 Asp Phe Phe Leu Val Ala Cys Leu Glu Asp Phe Ile Glu Asn Ala Arg
172          275          280          285
175 Leu Phe Ile Phe Glu Thr Phe Cys Arg Ile His Gln Cys Ile Ser Ile
176          290          295          300
179 Asn Met Leu Ala Asp Lys Leu Asn Met Thr Pro Glu Glu Ala Glu Arg
180 305          310          315          320
183 Trp Ile Val Asn Leu Ile Arg Asn Ala Arg Leu Asp Ala Lys Ile Asp
184          325          330          335
187 Ser Lys Leu Gly His Val Val Met Gly Asn Asn Ala Val Ser Pro Tyr
188          340          345          350
191 Gln Gln Val Ile Glu Lys Thr Lys Ser Leu Ser Phe Arg Ser Gln Met
192          355          360          365
195 Leu Ala Met Asn Ile Glu Lys Lys Leu Asn Gln Asn Ser Arg Ser Glu
196          370          375          380
199 Ala Pro Asn Trp Ala Thr Gln Asp Ser Gly Phe Tyr
200 385          390          395
203 <210> SEQ ID NO: 3
204 <211> LENGTH: 1500
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 3
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211 tggatcggca tctagtcttt ccgcttcttg aatttctctc tgtaaaggag atatataatg      120
213 aaaaggaatt attacaaggt aaattggacc ttcttagtga taccaacatg gtagactttg      180
215 ctatggatgt atacaaaaac ctttattctg atgatattcc tcatgctttg agagagaaaa      240
217 gaaccacagt gggtgcacaa ctgaaacagc ttcaggcaga aacagaacca attgtgaaga      300
219 tgtttgaaga tccagaaact acaaggcaaa tgcagtcaac cagggatggt aggatgctct      360
221 ttgactacct ggcggaacaa catggtttta ggcaggaata tttagatata ctctacagat      420
223 atgcaaaatt ccagtacgaa tgtgggaatt actcaggagc agcagaatat ctttattttt      480
225 tttagagtgt ggttccagca acagatagaa atgctttaag ttcactctgg ggaaagctgg      540
227 cctctgaaat cttaatgcag aattgggatg cagccatgga agaccttaca cggttaaaag      600
229 agaccataga taataattct gtgagttctc cacttcagtc tcttcagcag agaacatggc      660
231 tcattcactg gtctctgttt gttttcttca atcaccocaa aggtcgcgat aatattattg      720
233 acctcttctt ttatcagcca caatatctta atgcaattca gacaatgtgt ccacacattc      780
235 ttcgctattt gactacagca gtcataacaa acaaggatgt tcgaaaacgt cggcaggttc      840
237 taaaagatct agttaaagtt attcaacagg agtcttacac atataaagac ccaattacag      900
239 aatttgttga atgtttatat gtttaactttg actttgatgg ggctcagaaa aagctgaggg      960
241 aatgtgaatc agtgcttggtg aatgacttct tcttggtggc ttgtcttgag gatttcattg      1020
243 aaaatgcccg tctcttcata tttgagactt tctgtcgcat ccaccagtgt atcagcatta      1080
245 acatggttggc agataaattg aacatgactc cagaagaagc tgaaagggtg attgtaaatt      1140
247 tgattagaaa tgcaagactg gatgccaaaga ttgattctaa attaggtcat gtggttatgg      1200
249 gtaacaatgc agtctcacc cttatcagcaag tgattgaaaa gacccaaaagc ctttccttta      1260
251 gaagccagat gttggccatg aatattgaga agaaacttaa tcagaatagc aggtcagagg      1320
253 ctcttaactg ggcaactcaa gattctggct tctactgaag aaccataaag aaaagatgaa      1380
255 aaaaaaaact atcaaagaaa gatgaaataa taaaactatt atataaaggg tgacttacat      1440
257 tttggaaaca acatattacg tataaatttt gaagaattgg aataaaaattg attcatttta      1500
260 <210> SEQ ID NO: 4
261 <211> LENGTH: 396

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262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
265 <400> SEQUENCE: 4
267 Met Val Asp Phe Ala Met Asp Val Tyr Lys Asn Leu Tyr Ser Asp Asp
268 1 5 10 15
271 Ile Pro His Ala Leu Arg Glu Lys Arg Thr Thr Val Val Ala Gln Leu
272 20 25 30
275 Lys Gln Leu Gln Ala Glu Thr Glu Pro Ile Val Lys Met Phe Glu Asp
276 35 40 45
279 Pro Glu Thr Thr Arg Gln Met Gln Ser Thr Arg Asp Gly Arg Met Leu
280 50 55 60
283 Phe Asp Tyr Leu Ala Asp Lys His Gly Phe Arg Gln Glu Tyr Leu Asp
284 65 70 75 80
287 Thr Leu Tyr Arg Tyr Ala Lys Phe Gln Tyr Glu Cys Gly Asn Tyr Ser
288 85 90 95
291 Gly Ala Ala Glu Tyr Leu Tyr Phe Phe Arg Val Leu Val Pro Ala Thr
292 100 105 110
295 Asp Arg Asn Ala Leu Ser Ser Leu Trp Gly Lys Leu Ala Ser Glu Ile
296 115 120 125
299 Leu Met Gln Asn Trp Asp Ala Ala Met Glu Asp Leu Thr Arg Leu Lys
300 130 135 140
303 Glu Thr Ile Asp Asn Asn Ser Val Ser Ser Pro Leu Gln Ser Leu Gln
304 145 150 155 160
307 Gln Arg Thr Trp Leu Ile His Trp Ser Leu Phe Val Phe Phe Asn His
308 165 170 175
311 Pro Lys Gly Arg Asp Asn Ile Ile Asp Leu Phe Leu Tyr Gln Pro Gln
312 180 185 190
315 Tyr Leu Asn Ala Ile Gln Thr Met Cys Pro His Ile Leu Arg Tyr Leu
316 195 200 205
319 Thr Thr Ala Val Ile Thr Asn Lys Asp Val Arg Lys Arg Arg Gln Val
320 210 215 220
323 Leu Lys Asp Leu Val Lys Val Ile Gln Gln Glu Ser Tyr Thr Tyr Lys
324 225 230 235 240
327 Asp Pro Ile Thr Glu Phe Val Glu Cys Leu Tyr Val Asn Phe Asp Phe
328 245 250 255
331 Asp Gly Ala Gln Lys Lys Leu Arg Glu Cys Glu Ser Val Leu Val Asn
332 260 265 270
335 Asp Phe Phe Leu Val Ala Cys Leu Glu Asp Phe Ile Glu Asn Ala Arg
336 275 280 285
339 Leu Phe Ile Phe Glu Thr Phe Cys Arg Ile His Gln Cys Ile Ser Ile
340 290 295 300
343 Asn Met Leu Ala Asp Lys Leu Asn Met Thr Pro Glu Glu Ala Glu Arg
344 305 310 315 320
347 Trp Ile Val Asn Leu Ile Arg Asn Ala Arg Leu Asp Ala Lys Ile Asp
348 325 330 335
351 Ser Lys Leu Gly His Val Val Met Gly Asn Asn Ala Val Ser Pro Tyr
352 340 345 350
355 Gln Gln Val Ile Glu Lys Thr Lys Ser Leu Ser Phe Arg Ser Gln Met
356 355 360 365

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359 Leu Ala Met Asn Ile Glu Lys Lys Leu Asn Gln Asn Ser Arg Ser Glu
360      370      375      380
363 Ala Pro Asn Trp Ala Thr Gln Asp Ser Gly Phe Tyr
364 385      390      395
367 <210> SEQ ID NO: 5
368 <211> LENGTH: 25
369 <212> TYPE: DNA
370 <213> ORGANISM: Artificial Sequence
372 <220> FEATURE:
373 <223> OTHER INFORMATION: Oligonucleotide primer
375 <400> SEQUENCE: 5
376 accaataaaag ttttagtgag cacag                                25
379 <210> SEQ ID NO: 6
380 <211> LENGTH: 20
381 <212> TYPE: DNA
382 <213> ORGANISM: Artificial Sequence
384 <220> FEATURE:
385 <223> OTHER INFORMATION: Oligonucleotide primer
387 <400> SEQUENCE: 6
388 gcgcccacaaag accccctcac                                20
391 <210> SEQ ID NO: 7
392 <211> LENGTH: 20
393 <212> TYPE: DNA
394 <213> ORGANISM: Artificial Sequence
396 <220> FEATURE:
397 <223> OTHER INFORMATION: Oligonucleotide primer
399 <400> SEQUENCE: 7
400 ttaatcagtt tctttgggga                                20
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404 <211> LENGTH: 22
405 <212> TYPE: DNA
406 <213> ORGANISM: Artificial Sequence
408 <220> FEATURE:
409 <223> OTHER INFORMATION: Oligonucleotide primer
411 <400> SEQUENCE: 8
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416 <211> LENGTH: 20
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418 <213> ORGANISM: Artificial Sequence
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421 <223> OTHER INFORMATION: Oligonucleotide primer
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427 <210> SEQ ID NO: 10
428 <211> LENGTH: 20
429 <212> TYPE: DNA
430 <213> ORGANISM: Artificial Sequence
432 <220> FEATURE:

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VERIFICATION SUMMARY

DATE: 09/14/2005

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